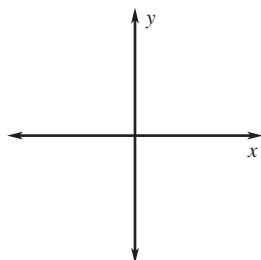


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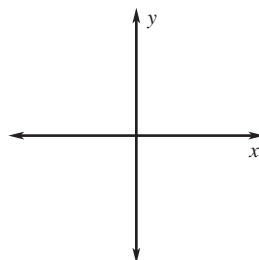
Date _____

LESSON
13.2**Practice***For use with pages 859–865***Draw an angle with the given measure in standard position.**

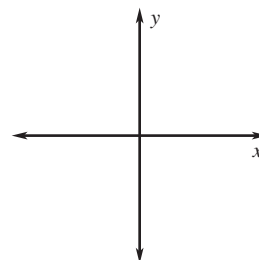
1. 130°



2. $\frac{5\pi}{4}$



3. $-\frac{2\pi}{3}$

**Find one positive angle and one negative angle that are coterminal with the given angle.**

4. -35°

5. 280°

6. $-\frac{\pi}{6}$

7. $\frac{7\pi}{5}$

Convert the degree measure to radians or the radian measure to degrees.

8. 270°

9. -135°

10. $\frac{11\pi}{6}$

11. $-\frac{\pi}{18}$

LESSON
13.2
Practice *continued*
For use with pages 859–865

Find the arc length and area of a sector with the given radius r and central angle θ .

12. $r = 5 \text{ m}, \theta = \frac{\pi}{2}$

13. $r = 7 \text{ in.}, \theta = \frac{3\pi}{4}$

14. $r = 11 \text{ ft}, \theta = 200^\circ$

Evaluate the trigonometric function using a calculator if necessary. If possible, give an exact answer.

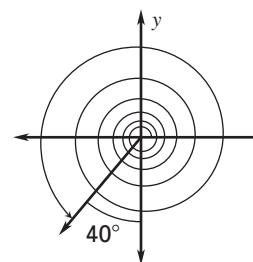
15. $\cos \frac{\pi}{4}$

16. $\sin \frac{\pi}{6}$

17. $\cot \frac{\pi}{9}$

18. $\csc \frac{4\pi}{5}$

- 19. Swing** At an amusement park, you ride a swing that takes you several revolutions counterclockwise as shown in the diagram. Find the measure of the angle generated as you are on the ride. Give the answer in both degrees and radians.



- 20. Cheese** A circular piece of cheese has a portion cut out as shown.
- What is the approximate arc length of the portion that is missing?
 - What is the approximate area of the portion that is missing?

